RUDRAPRASAD CONSULTANTS

Structural Engineers, Architects &
Project Management Consultants

To,

Date: 15-12-2022

ASSISTANT EXECUTIVE ENGINEER

YELAHANKA SUB DIVISION

BBMP

BANGALORE

Dear Sir,

Sub: M/s. Rudraprasad Consultants Services for the work of **"IMPROVEMENTS TO ROADS,DRAINS AND OTHER DEVELOPMENT WORKS AT YELAHANKA OLD TOWN, MARUTHINAGARA, SAPTHAGIRI LAYOUT GANDHINAGARA KHB COLONY, NEHRU NAGARA, SHIVANAHALLI, PDMS APTS PREMIES AND SURROUNDING AREAS IN WARD NO 01 OF YELAHANKA DIVISION UNDER AMRUTH NAGAROTHANA GRANTS(PACKAGE NO 01)."**

Ref: 1. Work Order No: BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23

2. Job code: 001-23-000001

We are here with forwarding to M/s SATHYA CONSTRUCTIONS, Prop. Rajeshwara Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064. First & Part Bill duly verified and certified that the work is satisfactory and for a Gross Value of Rs. 7,67,45,943/- (Rs. Seven Crore Sixty Seven Lakhs Fourty Five Thousand and Nine Hundred and Fourty Three Only).

Thanking you,

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka. Bangalore

Yours faithfully,

For Rudraprasad Consultants

RUDRAPRASAD CONSULTANTS BANGALORE

R. KARTHIK RECHAN B.E, M.S (U.S.A)
PRINCIPAL CONSULTANT
RUDRAPRASAD CONSULTANTS

Attachments PMC Compliance report

#3, 7th Main Malleswaram, Bangalore – 560003
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Name of the Work : Improvements to roads,drains and other development works at Yelahanka old town, Maruthinagara, sapthagiri layout Gandhinagara KHB Colony, Nehru nagara, Shivanahalli, PDMS APTS Premies and Surrounding areas in Ward No 01 of Yelahanka Division under Amruth Nagarothana Grants(PACKAGE NO 01)

Name of Client : EXECUTIVE ENGINEER, YELAHANKA DIVISION, BBMP, BANGALORE

Contractor/ Agency: M/s SATHYA CONSTRUCTIONS, Prop. Rajeshwara Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064

Total Cost : Rs. 7,67,45,943/-

Date Of Inspection : 15-12-22

Status Of Bill : First & Part Bill

In the Presence of : a) Assistant Engineer Yelahanka division, BBMP, Bangalore
b) R. Karthik Rechan, Partner, M/S RUDRAPRASAD CONSULTANTS, BANGALORE

PMC COMPLIANCE REPORT		
Sl. No.	**Description of work**	**Comments/Observations**
2	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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3	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately)Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
5	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
7	Providing and laying flooring and steps machine cut granite slabs 40 mm thick on cement mortar bed 1:6, 25 mm thick, and pointed with cement mortar 1:3 over existing cement concrete bed , including cost of materials, mortar labour, curing complete as per specifications. and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
8	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
9	Ruled/ Flush pointing on White sand stone masonry surface with lime, surkhi and marble dust mortar in the ratio of 1:1.5:1/2 {One lime : 1.5 surkhi (15% dark red and 85% light yellow surkhi) : 1/2 marble dust}. (The rate is inclusive of all aterials & labours involved except scaffolding). and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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10	Ruled/ Flush pointing on White sand stone masonry surface with lime, surkhi and marble dust mortar in the ratio of 1:1.5:1/2 {One lime : 1.5 surkhi (15% dark red and 85% light yellow surkhi) : 1/2 marble dust}. (The rate is inclusive of all aterials & labours involved except scaffolding). and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
11	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
14	Providing 18 mm cement plaster in two coats under layer 12 mm thick cement plaster with cement mortar 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster with cement mortar 1:3 (1 cement : 3 coarse sand) finished rough with sponge to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
37	Removing and resetting of kerb stones and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
38	Removing and Resetting of Footpath Slab and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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39	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately)M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
40	Providing and fixing precast reinforced cement concrete covering slabs of 10Cm thick made of M20 with OPC cement,with 20mm and down size graded granite metal coarse aggregate @0.70 mixed, Inculding providing and removing centering, shuttering, strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labour, all lead and lift, HOM of machinery, curing, including cost of reinforcement etc., complete and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
42	Providing one line dressing to granite stone slab / granite stone masonry as per specifications and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
44	Providing and fixing RCC precast cover slab of 230mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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45	Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc.,complete and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
46	Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
47	Providing and laying heavy duty cobble stones 75mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per m2 over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and Usage charges of machinery complete as perspecifications. and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
53	Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material by Mechanical Means using Hydraulic excavator with in all lifts and lead and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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54	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work.In all kinds of soils upto 300 mm depth and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
55	Construction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401 For Grading -IV Material and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
56	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:5:10 Using 40 mm nominal size graded crushed coarse and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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57	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14-days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
58	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
59	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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60	Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
61	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
62	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
63	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes.Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
66	Lead for Disposal of Debris and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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